

INTERNATIONAL SEARCH REPORT

International Classification No

PCT/03/13629

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01N15/14 G01N15/10 H03B5/32 //G01N27/00, G01N31/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N H03B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02 47246 A (YOSHIMINE HIROSHI ;SOTA HIROYUKI (JP); OKAHATA YOSHIO (JP); AMERSH) 13 June 2002 (2002-06-13) cited in the application page 1, line 6 -page 1, line 14 page 4, line 15 -page 4, line 25 page 9, line 2 -page 10, line 17 page 14, line 16 -page 16, line 14 page 17, line 23 -page 18, line 11 page 19, line 6 -page 20, line 7 page 20, line 14 -page 21, line 6 page 22, line 6 -page 22, line 15 page 23, line 23 -page 24, line 20 page 25, line 20 -page 26, line 20 page 32, line 1 -page 32, line 7 page 32, line 18 -page 33, line 4 figures 1-11,14-16 --- -/--	1-5

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
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T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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G document member of the same patent family

Date of the actual completion of the international search

26 January 2004

Date of mailing of the international search report

03/02/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2260 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Koch, A

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 6 196 059 B1 (H AUML RLE THOMAS ET AL) 6 March 2001 (2001-03-06) column 1, line 13 -column 1, line 28 column 6, line 60 -column 7, line 24 column 8, line 14 -column 9, line 25 column 10, line 26 -column 10, line 36 figures 1-6</p>	1-5
A	<p>KONASH PAMELA ET AL: "Piezoelectric Crystals as Detectors in Liquid Chromatography" ANAL. CHEM. , 'Online! 9 June 1980 (1980-06-09) - 2 July 1980 (1980-07-02), pages 1929-1931, XP001184167 Retrieved from the Internet: <URL:http://pubs.acs.org/cgi-bin/archive.c gi/ancham/1980/52/i12/pdf/ac50062a033.pdf> 'retrieved on 2004-01-23! cited in the application page 1929, column 1, paragraph 3 -page 1929, column 2, paragraph 2 page 1929, paragraph 4 -page 1930, paragraph 3</p>	1
A	<p>PATENT ABSTRACTS OF JAPAN vol. 016, no. 085 (P-1319), 28 February 1992 (1992-02-28) & JP 03 269365 A (MATSUSHITA ELECTRIC IND CO LTD), 29 November 1991 (1991-11-29) abstract</p>	1
A	<p>US 2002/151082 A1 (ROSENTERER JEFFREY J ET AL) 17 October 2002 (2002-10-17) page 1, column 1, paragraph 3 page 2, column 1, paragraph 8 -page 2, column 2, paragraph 2 page 3, column 1, paragraph 7 page 3, column 2, paragraph 2 -page 4, column 1, paragraph 2 figure 1</p>	1
A	<p>SAUERBREY G: "VERWENDUNG VON SCHWINGQUARZEN ZUR WAEGUNG DUENNER SCHICHTEN UND ZUR MIKROWAEGUNG" ZEITSCHRIFT FUER PHYSIK, SPRINGER VERLAG, BERLIN, DE, vol. 155, no. 2, 1959, pages 206-222, XP000195587 ISSN: 0044-3328 cited in the application the whole document</p>	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Publication No

PCT 03/13629

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0247246	A	13-06-2002	AU 2108802 A	18-06-2002
			CA 2441423 A1	13-06-2002
			EP 1352465 A1	15-10-2003
			WO 0247246 A1	13-06-2002
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JP 03269365	A	29-11-1991	NONE	
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